

Amendments to the Claims

Claim 1 (Previously presented): Seed of maize inbred line designated PH7JD, representative seed of said line having been deposited under ATCC Accession No. PTA-4532.

Claims 2-73 (Canceled)

Claim 74 (New): A maize plant, or a part thereof, produced by growing the seed of claim 1.

Claim 75 (New): The maize plant of claim 74 wherein said plant has been detasseled.

Claim 76 (New): A tissue culture of regenerable cells produced from the plant of claim 74.

Claim 77 (New): Protoplasts produced from the tissue culture of claim 76.

Claim 78 (New): The tissue culture of claim 76, wherein cells of the tissue culture are from a tissue selected from the group consisting of leaf, pollen, embryo, root, root tip, anther, silk, flower, kernel, ear, cob, husk and stalk.

Claim 79 (New): A maize plant regenerated from the tissue culture of claim 76, said plant having all the morphological and physiological characteristics of inbred line PH7JD, representative seed of said line having been deposited under ATCC Accession No. PTA-4532.

Claim 80 (New): A method for producing an F1 hybrid maize seed, comprising crossing the plant of claim 74 with a different maize plant and harvesting the resultant F1 hybrid maize seed.

Claim 81 (New): A method of producing a male sterile maize plant comprising transforming the maize plant of claim 74 with a nucleic acid molecule that confers male sterility.

Claim 82 (New): A male sterile maize plant produced by the method of claim 81.

Claim 83 (New): A method of producing an herbicide resistant maize plant comprising transforming the maize plant of claim 74 with a transgene that confers herbicide resistance.

Claim 84 (New): An herbicide resistant maize plant produced by the method of claim 83.

Claim 85 (New): The maize plant of claim 84, wherein the transgene confers resistance to an herbicide selected from the group consisting of: imidazolinone, sulfonylurea, glyphosate, glufosinate, L-phosphinothricin, triazine and benzonitrile.

Claim 86 (New): A method of producing an insect resistant maize plant comprising transforming the maize plant of claim 74 with a transgene that confers insect resistance.

Claim 87 (New): An insect resistant maize plant produced by the method of claim 86.

Claim 88 (New): The maize plant of claim 87, wherein the transgene encodes a *Bacillus thuringiensis* endotoxin.

Claim 89 (New): A method of producing a disease resistant maize plant comprising transforming the maize plant of claim 74 with a transgene that confers disease resistance.

Claim 90 (New): A disease resistant maize plant produced by the method of claim 89.

Claim 91 (New): A method of producing a maize plant with decreased phytate content comprising transforming the maize plant of claim 74 with a transgene encoding phytase.

Claim 92 (New): A maize plant with decreased phytate content produced by the method of claim 91.

Claim 93 (New): A method of producing a maize plant with modified fatty acid metabolism or modified carbohydrate metabolism comprising transforming the maize plant of claim 74 with

a transgene encoding a protein selected from the group consisting of stearyl-ACP desaturase, fructosyltransferase, levansucrase, alpha-amylase, invertase and starch branching enzyme.

Claim 94 (New): A maize plant produced by the method of claim 93.

Claim 95 (New): The maize plant of claim 94 wherein the transgene confers a trait selected from the group consisting of waxy starch and increased amylose starch.

Claim 96 (New): A maize plant, or part thereof, having all the physiological and morphological characteristics of the inbred line PH7JD, representative seed of said line having been deposited under ATCC Accession No. PTA-4532.

Claim 97 (New): A method of introducing a desired trait into maize inbred line PH7JD comprising:

(a) crossing PH7JD plants grown from PH7JD seed, representative seed of which has been deposited under ATCC Accession No. PTA-4532, with plants of another maize line that comprise a desired trait to produce F1 progeny plants, wherein the desired trait is selected from the group consisting of male sterility, herbicide resistance, insect resistance, disease resistance and waxy starch;

(b) selecting F1 progeny plants that have the desired trait to produce selected F1 progeny plants;

(c) crossing the selected progeny plants with the PH7JD plants to produce backcross progeny plants;

(d) selecting for backcross progeny plants that have the desired trait and physiological and morphological characteristics of maize inbred line PH7JD listed in Table 1 to produce selected backcross progeny plants; and

(e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise the desired trait and all of the physiological and morphological characteristics of maize inbred line PH7JD listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

Claim 98 (New): A plant produced by the method of claim 97, wherein the plant has the desired trait and all of the physiological and morphological characteristics of maize inbred line PH7JD listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

Claim 99 (New): The plant of claim 98 wherein the desired trait is herbicide resistance and the resistance is conferred to an herbicide selected from the group consisting of: imidazolinone, sulfonylurea, glyphosate, glufosinate, L-phosphinothricin, triazine and benzonitrile.

Claim 100 (New): The plant of claim 98 wherein the desired trait is insect resistance and the insect resistance is conferred by a transgene encoding a *Bacillus thuringiensis* endotoxin.

Claim 101 (New): The plant of claim 98 wherein the desired trait is male sterility and the trait is conferred by a cytoplasmic nucleic acid molecule that confers male sterility.

Claim 102 (New): A method of modifying fatty acid metabolism, phytic acid metabolism or carbohydrate metabolism in maize inbred line PH7JD comprising:

(a) crossing PH7JD plants grown from PH7JD seed, representative seed of which has been deposited under ATCC Accession No. PTA-4532, with plants of another maize line that comprise a nucleic acid molecule encoding an enzyme selected from the group consisting of phytase, stearyl-ACP desaturase, fructosyltransferase, levansucrase, alpha-amylase, invertase and starch branching enzyme;

(b) selecting F1 progeny plants that have said nucleic acid molecule to produce selected F1 progeny plants;

(c) crossing the selected progeny plants with the PH7JD plants to produce backcross progeny plants;

(d) selecting for backcross progeny plants that have said nucleic acid molecule and physiological and morphological characteristics of maize inbred line PH7JD listed in Table 1 to produce selected backcross progeny plants; and

(e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise said nucleic acid molecule and have all

of the physiological and morphological characteristics of maize inbred line PH7JD listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

Claim 103 (New): A plant produced by the method of claim 102, wherein the plant comprises the nucleic acid molecule and has all of the physiological and morphological characteristics of maize inbred line PH7JD listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.